

Amendments to the Claims:

Please cancel Claims 7, 8, 15, and 16, and amend Claims 1, 6, 9, and 14 as indicated in the following listing of claims, which replaces all prior versions, and listings of claims in the application.

Listing of Claims:

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a!

1. (Currently Amended) A method for processing a transport stream, the method comprising:
 - (a) parsing the transport stream to derive multiple elementary streams including associated program identifiers;
 - (b) using the associated program identifiers to ~~determine corresponding transfer locations in a host~~ index the elementary streams into a data structure maintained in a local memory; and
 - (c) performing direct memory access transfers of the multiple elementary streams ~~from the local memory to the~~ corresponding transfer locations in ~~the a~~ host memory ~~defined by the data structure.~~
2. (Original) The method according to claim 1, the method further comprising transferring the multiple elementary streams to an end user system.
3. (Original) The method according to claim 2 wherein the end user system comprises an audio-visual system and the step of transferring the multiple elementary streams to an end user system comprises transferring the multiple elementary streams through an audio-visual interface.
4. (Original) The method according to claim 2 wherein the end user system comprises a networked computer system and the step of transferring the multiple elementary

streams to an end user system comprises transferring the multiple elementary streams through a network interface.

5. (Original) The method according to claim 4 wherein the end user system further comprises a world wide web browser.

6. (Currently Amended) The method according to claim 1 wherein the step of using the associated program identifiers to ~~determine corresponding transfer locations in a host memory~~ index the elementary streams comprises:

(a) buffering each elementary stream in a first-in-first-out module; and
(b) ~~assigning the transfer location in the host memory to~~ indexing the buffered elementary stream into the data structure according to a particular program identifier.

7. – 8. (Canceled).

*A
cont.*
9. (Currently Amended) A system for receiving and processing a transport stream, the system comprising:

(a) a receiver configured to derive multiple data streams and associated program identifiers from the transport stream, and to use the associated program identifiers to index the elementary streams into a data structure maintained in a memory local to the receiver; and
(b) a direct memory access (DMA) transfer engine within the receiver, the DMA transfer engine being configured to initiate DMA transfers of the multiple data streams from the local memory to corresponding transfer locations in a host memory defined by the data structure that are determined using the associated program identifiers.

10. (Original) The system according to claim 9, the system further comprising an interface connected to the receiver configured to transfer the multiple elementary streams to an end user system.

11. (Original) The system according to claim 10 wherein the end user system comprises an audio-visual system and the interface comprises an audio-visual interface.

12. (Original) The system according to claim 10 wherein the end user system comprises a networked computer system and the interface comprises a network interface.

13. (Original) The system according to claim 12 wherein the end user system further comprises a world wide web browser.

14. The system according to claim 9 further comprising a first-in-first-out module within the receiver, the first-in-first-out module configured to buffer each elementary stream,

wherein the receiver is configured to ~~assign the transfer location in the host memory to index the buffered elementary stream into the data structure~~ according to a particular program identifier.

15. – 16. (Canceled).